

Information Request NEER-7-1

Request:

Please see attachment NEER-1-17(a), and provide the requested tables in a fully functional excel file with all formulas intact.

(a) Please provide a table that has Black and Veatch's estimated total nominal and undiscounted New England electricity cost reduction benefits from ANE for the years 2019-2038, total nominal and undiscounted New England volatility reduction benefits from ANE for the years 2019-2038 (as a separate entry than the electricity cost reduction benefits), total discounted New England electricity cost reduction benefits from ANE for the years 2019-2038 (discounting to 2016 with National Grid's proposed discount rate), total discounted New England volatility reduction benefits from ANE for the years 2019-2038 (again discounting to 2016 with National Grid's proposed discount rate and as a separate value from the electricity cost reduction benefit), total discounted New England electricity cost reduction benefits from ANE for the years 2019-2038 (discounting to 2016 with a 9% discount rate), and total discounted New England volatility reduction benefits from ANE for the years 2019-2038 (again discounting to 2016 with a 9% discount rate and as a separate value from the electricity cost reduction benefit).

(b) In a separate table, please provide Black and Veatch's estimated New England monthly nominal and undiscounted electricity cost reduction benefits from ANE for all months in the years 2019-2038, monthly nominal and undiscounted volatility reduction benefits from ANE for all months in the years 2019-2038 (as a separate entry than the electricity cost reduction benefits), monthly discounted electricity cost reduction benefits from ANE for all months in the years 2019-2038 (discounting to 2016 with National Grid's proposed discount rate), monthly discounted volatility reduction benefits from ANE for all months in the years 2019-2038 (again discounting to 2016 with National Grid's proposed discount rate and as a separate value from the electricity cost reduction benefit), monthly discounted electricity cost reduction benefits from ANE for all months in the years 2019- 2038 (discounting to 2016 with a 9% discount rate), and monthly discounted volatility reduction benefits from ANE for all months in the years 2019-2038 (again discounting to 2016 with a 9% discount rate and as a separate value from the electricity cost reduction benefit).

Response:

- a) Please see Attachment NEER-7-1(a) (Highly Sensitive Confidential Information).

Massachusetts Electric Company
Nantucket Electric Company
d/b/a National Grid
D.P.U. 16-05

Responses to the NEER's Seventh Set of Information Requests
July 28, 2016

Exhibit NEER-7-1

Page 2 of 2

- b) Please refer to Attachment NEER-1-17(a) and Attachment NEER-1-13(a) (Highly Sensitive Confidential Information) for the total benefits, and daily gas price volatility savings benefits on a monthly basis in 2015\$.

Nominal\$ (MM)		Total Annual Benefits - With ANE Only	
Column	A	B	C
Line #	Year	Monthly Electric Price Reduction Benefit	Reduced Daily Gas Price Volatility Benefit
1	2019		
2	2020		
3	2021		
4	2022		
5	2023		
6	2024		
7	2025		
8	2026		
9	2027		
10	2028		
11	2029		
12	2030		
13	2031		
14	2032		
15	2033		
16	2034		
17	2035		
18	2036		
19	2037		
20	2038		

Summary of Annual Benefits			
Column	A	B	C
Total ANE Project Benefits Summary 2019-2038 (\$ Billions) Discounted at 7.06%			
Line #	Project	Levelized Annual Benefits	Present Value Total Benefits
1	Monthly Electric Price Reduction Benefit		
2	Reduced Daily Gas Price Volatility Benefit		
3	Total		
Total ANE Project Benefits Summary 2019-2038 (\$ Billions) Discounted at 9.00%			
Line #	Project	Levelized Annual Benefits	Present Value Total Benefits
4	Monthly Electric Price Reduction Benefit		
5	Reduced Daily Gas Price Volatility Benefit		
6	Total		

Nominal\$ (MM)		Total Annual Benefits - With ANE Only	
Column	A	B	C
Line #	Year	Monthly Electric Price Reduction Benefit	Reduced Daily Gas Price Volatility Benefit
1	2016		
2	2017		
3	2018		
4	2019		
5	2020		
6	2021		
7	2022		
8	2023		
9	2024		
10	2025		
11	2026		
12	2027		
13	2028		
14	2029		
15	2030		
16	2031		
17	2032		
18	2033		
19	2034		
20	2035		
21	2036		
22	2037		
23	2038		